

Title (en)  
COLLECTOR ELEMENT FOR COLLECTING SOLAR ENERGY

Title (de)  
KOLLEKTORELEMENT ZUM SAMMELN VON SONNENENERGIE

Title (fr)  
ÉLÉMENT CAPTEUR DESTINÉ À CAPTER DE L'ÉNERGIE SOLAIRE

Publication  
**EP 3580501 A4 20201216 (EN)**

Application  
**EP 18751173 A 20180208**

Priority  
• US 201715429449 A 20170210  
• FI 2018050089 W 20180208

Abstract (en)  
[origin: US2018231275A1] A collector element for collecting solar energy. The collector element is made of metal and comprises at least one elongated central ridge comprising at least one internal flow channel for a heat transfer medium, first and second elongated side ridges at opposite sides of the at least one central ridge and an elongated depression between each two adjacent ridges. At least one side ridge comprises at least one fastening element by means of which at least one substantially solar radiation permeable covering element is to be fastened to the collector element for covering at least the at least one elongated central ridge of the collector element.

IPC 8 full level  
**F24S 10/70** (2018.01); **E04C 2/52** (2006.01); **E04D 3/35** (2006.01); **F24S 10/40** (2018.01); **F24S 25/40** (2018.01); **F24S 25/65** (2018.01)

CPC (source: EP US)  
**F24S 10/75** (2018.04 - EP US); **F24S 20/25** (2018.04 - US); **F24S 20/67** (2018.04 - EP US); **F24S 25/61** (2018.04 - EP US);  
**F24S 80/58** (2018.04 - EP US); **F24S 2025/6007** (2018.04 - EP US); **F24S 2080/503** (2018.04 - EP US); **Y02B 10/20** (2013.01 - EP US);  
**Y02E 10/44** (2013.01 - EP US); **Y02E 10/47** (2013.01 - EP US)

Citation (search report)  
• [X] US 2014096762 A1 20140410 - MANDERBACKA MATS [FI]  
• [XI] DE 3041374 A1 19820513 - HELFRECHT MANFRED FA [DE]  
• [XI] DE 2618827 A1 19771117 - RIECH BRUNO  
• [XI] DE 2641084 A1 19780316 - EYERS  
• [X] WO 2009146863 A2 20091210 - MELIDIS PARIS [DE], et al  
• [X] AT 374912 B 19840612 - VMW RANSHOFEN BERNDORF AG [AT]  
• [I] DE 2509422 A1 19760916 - DUEVEL CHRISTIAN  
• [A] WO 9923424 A1 19990514 - SOLEL CONSUMER NAAMLOZE VENNOO [BE], et al  
• See references of WO 2018146383A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**US 10527318 B2 20200107**; **US 2018231275 A1 20180816**; EP 3580501 A1 20191218; EP 3580501 A4 20201216;  
WO 2018146383 A1 20180816

DOCDB simple family (application)  
**US 201715429449 A 20170210**; EP 18751173 A 20180208; FI 2018050089 W 20180208